## (19) World Intellectual Property Organization International Bureau



## THE REPORT OF THE REAL PLAN FOR CHANGE AND REPORT OF THE REAL PROPERTY OF THE REAL PROPERTY OF THE REAL PROPERTY OF THE REAL PLAN FOR THE REAL PROPERTY OF T

(43) International Publication Date 24 February 2005 (24.02.2005)

PCT

## (10) International Publication Number WO 2005/018287 A1

- (51) International Patent Classification?:
- H05F 3/06
- (21) International Application Number:

PCT/KR2003/002046

- (22) International Filing Date: 2 October 2003 (02.10.2003)
- (25) Filing Language:

English

(26) Publication Language

English

(30) Priority Data:

- 10-2003-0056410 14 August 2003 (14.08.2003) KR
  (71) Applicant (for all designated States except US): SUNIE
- (71) Applicant (for all designated States except US): SUNJE HITTER CO., LITD. [KR/KR]; 700-18 Mora-dong, Sasanggu., Pusan 617-080 (KR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): LEE, Dong-Hoon [KR/KR]; 106-2301 Decrim 1-cha Apartment, 25-tong 8-ban, 1396 Jos-dong, Haewoondae-gn, Pusan 612-755 (KR).
- (74) Agent: KIM, Sung-Soo; Room No. 702, Dongil Plaza Building, 763-7 Sanggye-6-dong, Nowon-gu, Seoni 139-831 (KR).

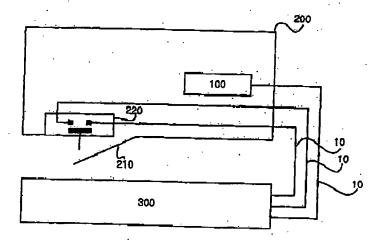
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GR, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MV, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KB, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Enrasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Buropean patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, II, LU, MC, NI, PT, RO, SE, SI, SK, TR), OAPI patent (BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A DEVICE FOR REMOVING ELECTROSTATIC CHARGES ON AN OBJECT USING SOFT X-RAY



(57) Abstract: A remover of electrostatic charges comprises a head part, a soft X-ray protecting part, and a power controlling part. The head part neutralizes and weakens electrostatic charges of bodies that are objects of removal of electrostatic charges by molecules directly and also removes electrostatic charges in atmosphere of inert gases (N<sub>2</sub>, Ar). The soft X-ray mbe, and ionizes gas the head part and prevents that soft X-ray is leaked from said head part. The power controlling part is connected to the head part and the soft X-ray protecting part electrically and provides target voltage to control the ion generation of filament voltage of a soft X-ray tube with the soft X-ray tube.

5/018287 A1